

<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> (37 CFR 1.63)	Attorney Docket Number	US 040110
	First Named Inventor	Zhao, Lily
	<b>COMPLETE IF KNOWN</b>	
	Application Number	
	Filing Date	
	Group Art Unit	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)	OR	
Examiner Name		

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method and Apparatus for Increasing Routing Density for a Circuit Board

(Title of the Invention)

the specification of which:

☒ is attached hereto  
OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Numbers(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
			<input type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto:

# DECLARATION --- Utility or Design Patent Application

Direct all correspondence to: ☒ Customer Number **24738** AND/OR ☐ Correspondence address below

Name **PHILIPS ELECTRONICS NORTH AMERICA CORPORATION**  
Intellectual Property & Standards

Address **1109 McKay Drive, M/S-415J**

City **San Jose**

State **California**

ZIP **95131**

Country **U.S.A.**

Telephone **(408) 474-9073**

FAX **(408) 474-9082**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


NAME OF SOLE OR FIRST INVENTOR:

☐

A petition has been filed for this unsigned inventor

Given Name  
(first & middle (if any)) **LILY**

Family Name  
or Surname **ZHAO**

Inventor's  
Signature 

Date **12/15/04**

Residence: City **San Diego**

CA  
State

U.S.A.  
Country

China  
Citizenship

Mailing Address **17883 Sun Walk Ct**

City **San Diego**

CA  
State

92127  
ZIP

U.S.A.  
Country

NAME OF SECOND INVENTOR:

☐

A petition has been filed for this unsigned inventor

Given Name  
(first & middle (if any)) **MICHAEL**

Family Name  
or Surname **LOO**

Inventor's  
Signature

Date

Residence: City **San Jose**

CA  
State

U.S.A.  
Country

U.S.A.  
Citizenship

Mailing Address **2922 Lovewood Way**

City **San Jose**

CA  
State

95148  
ZIP

U.S.A.  
Country

NAME OF THIRD INVENTOR:

☐

A petition has been filed for this unsigned inventor

Given Name  
(first & middle (if any))

Family Name  
or Surname

Inventor's  
Signature

Date

Residence: City

State

Country

Citizenship

Mailing Address

City

State

ZIP

Country

☐ Additional inventors are being named on the \_\_\_\_\_ supplemental Additional Inventor(s) sheet(s) attached hereto.

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**NAME OF SOLE OR FIRST INVENTOR:**

☐

A petition has been filed for this unsigned inventor

Given Name **LILY**  
(first & middle [if any])

Family Name **ZHAO**  
or Surname

Inventor's  
Signature

Date

Residence: City **San Diego**

CA  
State

**U.S.A.**  
Country

**China**  
Citizenship

Mailing Address **17883 Sun Walk Ct**

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CA  
State

**92127**  
ZIP

**U.S.A.**  
Country

**NAME OF SECOND INVENTOR:**

☐

A petition has been filed for this unsigned inventor

Given Name **MICHAEL**  
(first & middle [if any])

Family Name **LOO**  
or Surname

Inventor's  
Signature

Date

Residence: City **San Jose**

CA  
State

**U.S.A.**  
Country

**U.S.A.**  
Citizenship

Mailing Address **2922 Lovewood Way**

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CA  
State

**95148**  
ZIP

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**NAME OF THIRD INVENTOR:**

☐

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Family Name  
or Surname

Inventor's  
Signature

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# PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

ZHAO, Lily

LOO, Michael

hereby appoint(s) the following person as: ☐ agent ☒ common representative

**Name and address** (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country)

Koninklijke Philips Electronics N.V.  
Groenewoudseweg 1, 5621 BA Eindhoven, NL

to represent the undersigned before ☒ all the competent International Authorities  
☐ the International Searching Authority only  
☐ the International Preliminary Examining Authority only

in connection with the international application identified below:


**Title of the invention:** METHOD AND APPARATUS FOR INCREASING ROUTING DENSITY FOR A CIRCUIT BOARD

**Applicant's file reference:** US 040110P

**International application number (if already available):**

filed with the following Office IB as Receiving Office and to make or receive payments on behalf of the undersigned

**Signature of applicant(s)** (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):

Signature:   
Name: Lily Zhao

Signature: \_\_\_\_\_  
Name: Michael Loo

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

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Signature: \_\_\_\_\_  
Name: Lily Zhao

Signature: \_\_\_\_\_  
Name: Michael Loo

Signature: \_\_\_\_\_  
Name:

Signature: \_\_\_\_\_  
Name:

Signature: \_\_\_\_\_  
Name:

## SOLE/JOINT ASSIGNMENT

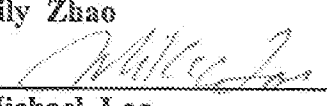
For good and valuable consideration, receipt of which is hereby acknowledged, I, as a below-named Assignor, hereby sell, assign, and transfer the entire and exclusive right, title, and interest in the following to **KONINKLIJKE PHILIPS ELECTRONICS N.V.** having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, NL, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

- (1) my/our invention relating to "**METHOD AND APPARATUS FOR INCREASING ROUTING DENSITY FOR A CIRCUIT BOARD**" for which a U.S. provisional patent application was filed in the United States Patent and Trademark Office on February 4, 2004, having a Serial Number 60/541,110.
- (2) the foregoing application and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisionals, divisions, continuations, continuations-in-part, reexaminations, reissues, and extensions thereof, and
- (3) the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

I authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to Koninklijke Philips Electronics N.V., for its sole use, and that of its successors, assigns, and legal representatives.

I will provide my cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, I agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutorial actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.

I certify that I have the full right to convey the above rights.

_____ Date	_____, Assignor Lily Zhao
_____ 11/30/04 Date	_____, Assignor  Michael Loo
_____ Date	_____, Assignor

## SOLE/JOINT ASSIGNMENT

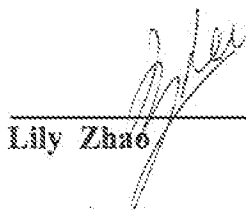
For good and valuable consideration, receipt of which is hereby acknowledged, I, as a below-named Assignor, hereby sell, assign, and transfer the entire and exclusive right, title, and interest in the following to **KONINKLIJKE PHILIPS ELECTRONICS N.V.** having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, NL, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

- (1) my/our invention relating to **"METHOD AND APPARATUS FOR INCREASING ROUTING DENSITY FOR A CIRCUIT BOARD"** for which a U.S. provisional patent application was filed in the United States Patent and Trademark Office on February 4, 2004, having a Serial Number 60/541,110.
- (2) the foregoing application and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisionals, divisions, continuations, continuations-in-part, reexaminations, reissues, and extensions thereof, and
- (3) the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

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I certify that I have the full right to convey the above rights.

<u>11/2/04</u> _____ Date	 _____ Lily Zhao, Assignor
_____ Date	_____ Michael Loo, Assignor
_____ Date	_____ _____, Assignor